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Strong orbit equivalence and eigenvalues

The additive group $E(X, T)$ of continuous eigenvalues of a minimal Cantor systems (X, T) is not invariant under strong orbit equivalence. Nevertheless, there are some restrictions determined by the dimension group $K^0(X, T)$ associated to (X, T) . In this work we show that the quotient group $I(X, T)/E(X, T)$ (where $I(X, T) = \bigcap_{\tau \in T} \tau(K^0(X, T))$ and T is the set of traces of $K^0(X, T)$) is torsion free whenever the associated dimension group has no non trivial infinitesimal. There are some open question about realization. This is a joint work with Fabien Durand and Samuel Petite. Another work in the same direction was made by Giordano, Handelman and Hosseini.